**April 2009** X-tra

# Reflections ... from page 3

"I expect these new platforms to be busy with new science investigations all over the world," he said.

#### The DAOF and infrastructure

In addition to efforts to stabilize the center's work force and balance and diversify its program portfolio, Petersen developed the business case and successfully advocated for the Dryden Aircraft Operations Facility, or DAOF.

Located in Palmdale, the facility currently houses the DC-8 and NASA's 747SP Stratospheric Observatory for Infrared Astronomy, or SOFIA. It s expected that other Dryden aircraft will be moved to the facility later

Petersen also made the case within NASA for the center to be awarded supplemental infrastructure funding to sustain critical capabilities. His efforts resulted in the center receiving an additional \$25 million annually to sustain Dryden's flight operations and test infrastructure.

#### New administration, new opportunities

The new presidential administration also appears to offer new opportunities for NASA and potentially for Dryden. Additional funding in the stimulus package recently signed into law includes resources for NASA for climate change research, innovation in aviation and aviation safety.

"I expect an increase in work and opportunities in aeronautics and Earth science," Petersen said.

environmentally responsible aircraft is a new X-plane to demonstrate some flight. Those are the things everybody works for. There have been a lot of the next-generation technologies that have been developed or identified of milestones of flight here," Petersen said. by the Aeronautics Research Mission Directorate. Dryden has been supporting flights of the subscale X-48B blended wing body aircraft.

100-foot wingspan, piloted X-plane to improve some of these technologies way to give Dryden employees the tools to meet the challenges that are for the nation," Petersen said.

The Orion program also was identified for additional funding in the recently approved stimulus package.

way to Dryden, but the move signifies support for key NASA initiatives, to bring returns for years to come.

which is undergoing preparations at the center for the first flight test of the to position the center to have the right mix of people and capabilities to spacecraft's launch abort system later this year. Dryden might have a role in other elements of the effort to return to the moon, possibly including research of a lunar lander and, eventually, support of the larger Constellation approach. Programs will go up and down, schedules will change, budgets program as it moves to operational status in ways similar to how the center will change and staffing will change. Ride through those ups and downs provides support to the space shuttle program, Petersen said.

#### Achievement and transformation

firsts, including the flight of the Helios Prototype solar-electric aircraft to a world record 96,863-foot altitude, the flight of the X-43A integrated scramjet vehicle to a speed of Mach 10, and the demonstration of fully

Petersen, second from right, shows NASA Administrator Michael Griffin around the center. Also visible are, from left, pilot Jim Smolka and Jerry McKee.

autonomous in-flight aerial refueling capability.

"I have a lot of good memories. The most exciting times were those when the center supported first flights of new aircraft, the first time new Another possibility Petersen anticipates as a result of emphasis on technologies were tried, or the first time a concept was proven out in

Petersen said he also is satisfied with the effort of the past six years to improve the center's performance and the Transforming Dryden efforts "The blended wing body concept hopefully will result in a mid-scale, of the past two to three years. He believes the workshops were a good common with change.

He hopes that Dryden employees, who have traditionally excelled at meeting short-term challenges, will expand their view to see ahead to It is unclear how much of the stimulus package funding might make its longer-term planning, an investment that Petersen said should continue

For his successor, Petersen suggests the new center director have an Dryden will continue its efforts on the Orion flight test crew module, eye on what's going to happen two to three years from now and continue meet the challenges and anticipate needs.

> The new center director also should work to "maintain a steady without acting too quickly. Allow time to balance things out."

Petersen is satisfied with his career and where Dryden is today.

"My goal was to put together a solid team and position the center During the past decade, Dryden has accomplished many flight-research for success. I'm comfortable with accomplishing that goal and that the team will carry on," he said. "In addition to having the right mix programmatically, we have developed the right people with the right skills. It's the people that make things happen."

X-tra is published for civil servants, contractors and retirees of the Dryden Flight Research Center and the center's partners and customers

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**National Aeronautics and Space Administration** 







Kevin L. Petersen retires after 37-year career, the past 10 years as NASA Dryden Flight Research Center director.

X-tra

# Tribute ... from page 6

"He's a very systematic and cooperative education student, "I have found Kevin to be a

#### **Bob Mever** SOFIA program manager

than four decades and I have seen Dryden. him in action as a brilliant flight people.

during a time of change, and has at work. succeeded in building a strong pride in that.

He has a character molded by working in almost every type Kenneth Szalai

"Kevin Petersen has been a excellence at Dryden. This project straightforward honesty, technical and to make health my priority." close colleague of mine for more was as difficult as any ever done at and managerial credibility, and

of job at Dryden, starting as a Dryden Center Director, 1990-98 Dryden for a bright future.

detailed preparation.

controls and systems and software and management skills and support for the center through engineer, a highly competent line accomplishments, Kevin has the networking and one-on-one supervisor with flight-critical integrity, honesty, and concern advocacy rather than a heads-on, high priority on his own family and for the center. Kevin was always, Kevin has an extraordinary personal responsibilities, and as a ALWAYS prepared and usually and intelligence. He has led the gave a lot to the community, even the people he was meeting with. The NASA of tomorrow will from many of the decision-makers and talented workforce that is reap the results of his legacy, and already in hand. This approach is able to take on anything Dryden Dryden and would be best served both time-consuming and very is given in aerospace and airborne to develop, grow and appoint effective. To see the results, just look science projects. He can take great people like Kevin to lead it in the around at Dryden's facilities and programs. Kevin is a man of action who tries to be proactive instead of reactive and he has positioned

Kevin has a very human side that methodical thinker, who uses and eventually leading some of true leader, and a good manager most people rarely get to see. He good engineering and systems the most challenging aerospace who has done great things for really cares about the Dryden family approaches to solving problems. projects flown by Dryden. He the center. I believe he is one of and the individuals who make it up "WhatDrydenwillmissthemost fostered excellent relationships Dryden's best center directors. When he would learn of a personal is, Kevin has been a real stabilizing with other NASA centers, the Most people have no concept of tragedy or health problems, Kevin influence for the center. He isn't 🛮 industry and the military. This 🏻 the great challenges to the center 🔻 was often visibly shaken. You could reactionary. He spends some strong collaborative spirit led to and Dryden's workforce that see the concern on his face. And, time and thinks things out. The one of the most important high- Kevin deflected. But he wasn't just he would ask us to see if there was center has done well under his speed flight programs conducted reactive. Kevin worked hard to get a way the center could help. In leadership and grown when it by NASA in its history, the outinfrontofpotentialproblems.I my own case, I was acting Deputy could have been downsized." Hyper-X (X-43), which evaluated believe strongly that many Dryden Director when I found out I had an advanced configuration and employees would not have jobs at prostate cancer. Even though I was scramjet at Mach 10. This was a the center today if it weren't for in the middle of a major action item result of model collaboration with him. He was extremely effective from (NASA) Headquarters, Kevin NASA Langley and engineering because of his tireless advocacy, told me not to worry about work

# **Larry Schilling** In addition to his technical As center director, Kevin built Former Associate Center Director for Operations

"His contributions at the helm responsibilities, a sophisticated for people that is the difference steamroller approach. He sacrificed of Dryden over the years have been manager in senior positions, and between a good manager and a a lot of his personal time to get to truly significant in keeping the center a strong leader and developer of great leader. Kevin always placed a know the people needed as allies at the forefront of aerospace flight research, test and development, both nationally and internationally. combination of instinct, insight baseball coach for young people, knew more about a subject than Dryden has been extremely fortunate to have someone who has come up Dryden Flight Research Center when he had incredible demands When the timing was right, he through the ranks and understands would make his case with support not only the critical technology but also the complex personnel issues and expertise required to keep Dryden both competitive and productive in a very difficult time and environment."

## Cal Jarvis Retired Dryden Aerospace Projects director

# SUCCESS ... from page 6

Technology projects.

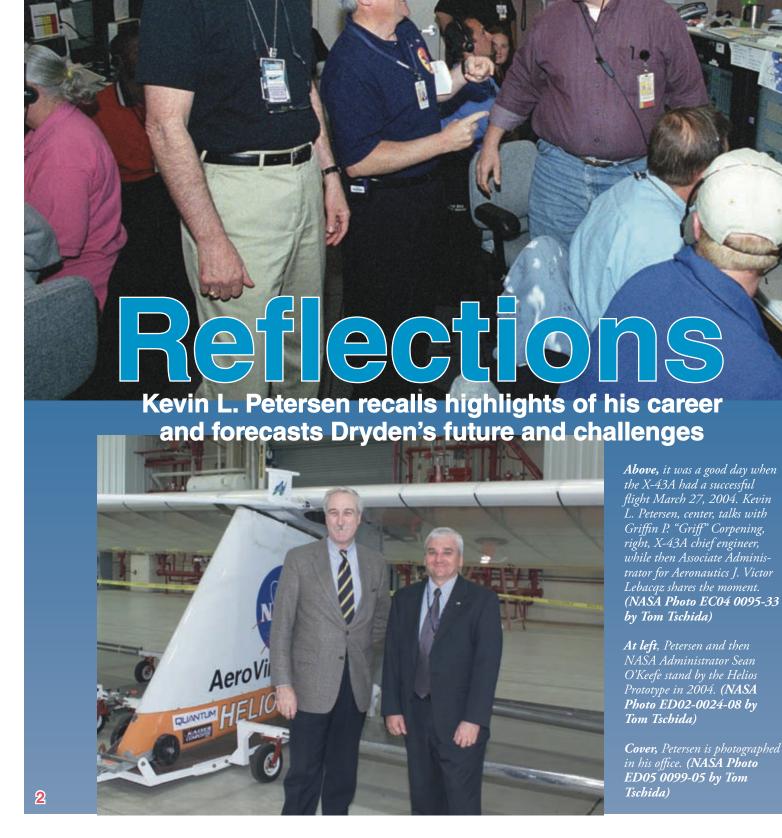
supervisory and management engineer. positions at Dryden within the

engineer on the three-eighths- controls, structural dynamics, deputy director and was appointed Equal Employment Opportunity scale F-15 Remotely Piloted and flight systems. Programs he deputy director in January 1996. Medal. Research Vehicle, the F-8 supported included the F-18 High Petersen was named the center's Digital Fly-By-Wire and the Angle-of-Attack Research Vehicle director on Feb. 9, 1999.

Research Engineering Division. National AeroSpace Plane project Engineering Achievement Medal, control systems. He provided multidisciplinary office from February 1992 to NASA's Exceptional Service programs in flight dynamics and selected as the center's acting Leadership Medal and NASA's Astronautics.

Petersen graduated from Iowa State University in 1974 with Highly Maneuverable Aircraft and the X-29 Forward Swept Petersen was awarded NASA's a Bachelor of Science degree in Wing technology demonstrator Exceptional Achievement Medal aerospace engineering and earned He later served in multiple aircraft, for which he was chief in 2004 for his contributions to a Master of Science degree from the agency. He also has been the University of California, Los Petersen headed the center's recipient of NASA's Exceptional Angeles, in 1976, specializing in

He is a fellow of the American support to a variety of research November 1993. He was then Medal, NASA's Outstanding Institute of Aeronautics and



April 2009

The Stratospheric Observatory for Infrared Astronomy is one of the programs that came to Dryden while Petersen was Dryden center director. Above, SOFIA Program Manager Bob Meyer, at left, explains details of the flying infrared observatory to city officials from Palmdale. From right are Bob Curry, Petersen, Palmdale Mayor Jim Ledford, Palmdale Aviation and Aerospace Commission ChairmanVauneld Adams and Palmdale Councilman Tom Lackey.

# By Jay Levine

Director Kevin L. Petersen's opportunities and experiences enticed him to stay at Dryden throughout his 37-year career.

He began his work at Dryden in 1974 as an aerospace engineer and worked his way up from researcher to management and then to center leadership.

His work at the center dates program and then on to the YFdynamics and controls.

# SUCCESS

**Dryden offered opportunities** 

back even before then to his worked to maintain a balance and at work, time demands were greater three cooperative education has advocated to center employees at work," he said. experiences. He started in the that they also strive to maximize 
In retirement he plans to focus

12 program in the areas of flight when the children were younger, I United States. spent more time with my family. In It can be challenging balancing the jobs I was in, it was achievable the demands of work with those because I didn't have as much travel. of home, Petersen said. He has As the kids grew up and I advanced See Success, page 7

acoustics area on the Short opportunities at work, but also to on family again as well as tackling Take-off and Landing, or STOL concentrate on the ones at home. some home projects, gardening, "In the earlier part of my career, exercise and travel throughout the

> Early in his career at Dryden, Petersen worked as a research

# Petersen's attributes are noted

Here are some thoughts and reactions by people who have worked with Center Director Kevin L. Petersen.

"Kevin's service to NASA exemplifies what's great about the people who make up America's space program – he's served with distinction and helped lead the agency aeronautics efforts into the 21st century."

# **Chris Scolese NASA Acting Administrator**

"Kevin is the hardest working, most dedicated Dryden employee I have met. He has been the right person at the right time for the political and economic times we faced over the past 10 years. His efforts in transforming Dryden into a more flexible, dynamic and diverse organization will continue to benefit the center long into the future."

# David D. McBride **Dryden Deputy Center** Director

"He is intelligent, politically savvy, patient and calm during storms. Nothing ruffles his feathers. He takes it all in stride and that's a valuable quality when facing some of the pretty rough times we've had. Kevin set the tone. "We were lucky to have him as our center director because he believes in flight research and had invested himself in the center – a whole career. I'll miss a good mentor and friend."

**Gwen Young** Dryden associate director for management

See Tribute, page 7



At left, Dryden Center Drector Kevin L. Petersen welcomes the crew of STS-117 home in July 2007. Atlantis and its crew ended their 14-day journey to space at Edwards Air Force Base and was prepared at Dryden for return to the Kennedy Space Center in Florida. Edwards is the primary backup site for landing a space shuttle when favorable in Florida.

ED07 0137-10 by Tony Landis

By Jay Levine X-Press Editor

enter Director Kevin L. Petersen sees progress, achievement level was a key challenge," Petersen said. and a bright future for Dryden.

"Dryden has a very bright future and this is a good time **Partnerships** for transition," Petersen said of his decision to retire.

the longest tenure of any current NASA center director. Petersen focused mission of one of NASA's smaller centers.

In a recent survey made to identify key Dryden projects and personnel, survey respondents noted other reasons for his success. Petersen was cited as a Dryden key contributor for his work on the "friendliest center director at NASA." Nominators also recognized and the Global Hawk autonomous aircraft. him for his ability to "focus on bringing us the right project activities for Dryden."

Petersen sees the change and diversification of work and skills as one of the center's key achievements during his leadership. The center's skill mix has been changing in response to what's happening in the nation by diversifying the type of work the center does and where the center's dollars come from.

space shuttle support. Now, while aeronautics research and shuttle support still comprise a portion of Dryden's budget, it is a much smaller portion and balanced with major projects supporting all four of NASA's mission disciplines - environmental and space science, space exploration, human spaceflight and aeronautics, See Reflections, page 8

"My attempt to stabilize the workforce and achieve a healthy workforce

Another key factor in the center's success is its partnerships, he said. For the past 10 years he has served as center director, and has For example, during the past decade work has shifted from the Defense Advanced Research Projects Agency and the U.S. Department of Defenseattributes his longevity - 37 years - at the center to the unique and supported X-planes. While there are still projects in that arena, new projects feature more science missions with an expanding customer base that includes such partners as the National Oceanic and Atmospheric Administration, the U.S. Forest Service and science organizations.

An example of these new partnerships is seen in the new opportunities F-8 Digital Fly-By-Wire program earlier in his career and as center that are becoming available for the science community with the director. Nominators called Petersen "a great center director" and the acquisitions of a civilian Predator B that the center has called Ikhana,

> Northrop Grumman's cost sharing with the Global Hawk is an example of future partnerships that are beneficial to NASA and the company, Petersen said. Northrop Grumman officials are looking to test new experiments and components on the Dryden Global Hawks that were transferred from the Air Force. The aircraft are early prototype models of the Global Hawks used for the development program.

The Ikhana and Global Hawk are the only aircraft of their type Dryden's key funding was primarily in NASA aeronautics and available to non-military users and therefore there is a demand to test various experiments on the Dryden testbeds, Petersen said.

> The first Global Hawk mission scheduled for this summer will spark scientists' interest in things they might not be thinking of today, he

# Through the Cecaces

A look at Kevin L. Petersen's 37-year career in photographs



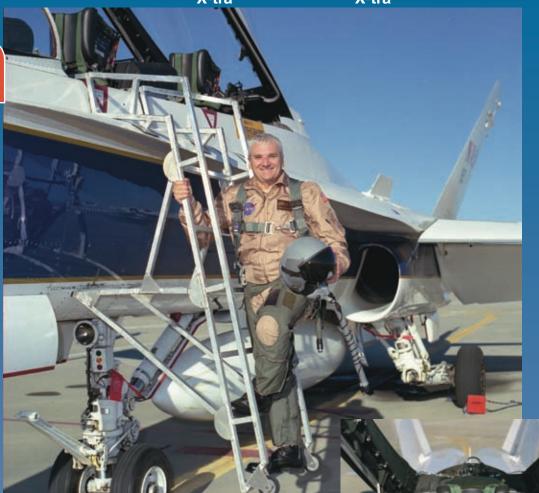
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**Above**, Dryden Center Director Kevin L. Petersen is pictured in the front row at right. The front row also includes, from left, Kenneth Szalai and Bob Kempel. In the back row are, from left, Bob Noscoe, Larry Schilling and Dick Larson. The group earned a Highly Maneuverable Aircraft Technology back-up control system team award.

At right, Petersen is pictured in 1982 (NASA Photo EC08 18584) and in 1986 uponreceiving the Outstanding Professional Award, runner-up. (NASA Photo EC86 33358-02)







Above and at right, Dryden Center Director Kevin L. Petersen prepares for a flight in the back seat of a Dryden F/A-18. (NASA Photos EC05 0258-10 and EC05 0258-6 by Tony Landis)

**Below**, Petersen gives a tour to U.S. Rep. Kevin McCarthy (R-Ba-kersfield), left. (NASA Photo ED08 0083-07 by Tom Tschida)



ED07 0214-08



At left, Petersen talks with retired Brig. Gen. Chuck Yeager. Yeager had come to Dryden to talk about highlights of his flying career, which included the first supersonic flight in the Bell X-1.

At left, Petersen stands with artist Bob McCall, who painted the mural behind them. The mural is entitled "Celebrating One

**NASA Photo Tony Landis** 





